INSTRUMENTATION

This unit has three functions, maintenance of the electronic and mechanical instruments now in use at the Laboratory, informing biologists about progress made in instrumentation in other laboratories and fields of research which may be adapted to solving their problems, and aiding biologists in the design and development of new tools.

This Laboratory now has an underwater television chain, and underwater still camera, self-contained underwater breathing apparatus, ship-to-shore radio equipment, bathythermographs, a recording temperature-depth telemeter, and several types of automatic or semi-automatic plankton and bottom samplers. All of these instruments require maintenance and repair; some need periodic calibration and occasional modification. In the past, these duties have been carried out by the biologists who used the instruments but with the increasing complexity of the gear this is no longer practical.

Progress in instrumentation is extremely rapid in all fields of research. Many tools developed elsewhere can be adapted to solving the problems of fishery biology. This unit is responsible for keeping in touch with new developments in instrumentation and informing biologists of new tools as they become available.

Traditionally, new instruments have been developed by the particular biologist who had a particular problem to solve. This system will probably continue but this unit will aid in the selection of the best materials and the most appropriate mechanism as well as in the fabrication of the prototype.

At present there is no need for a full scale, complete instrumentation unit. The ideal arrangement would include an electronic shop, a small machine shop, an electronic technician, and a machinist.

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SUMMARY CONT T. SCHEDULE

Investigation: Instrumentation
Biological Laboratory: Woods Hole, Mass.

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Project Title		Cost	57	538	59	09	19	62 (63	1 179	65 [6	99
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*Total needed by Laboratory for Froject in theusands of dollars.

U. S. Fish and Wildlife Service Bureau of Commercial Fisheries

Sheet No. 1

Location: Woods Hole, Masse Date: August 6, 1959
File No.

Research Project Outline

Title of Project	: Instrumentation	n .			
Investigation Ti	tle:			 	
Investigation Ch	ief:				
Project Leader:_	James M. Crossen Name	Elec. Equip. Spec.	G S- 9	Gr ade	
: Assistants: (Ti	tle and Grade)				
Collaborators:					
Need for Informa	tion: Service	ce ^U nit			
Objective:					
Method of Proced	lire•				
Phase 1:					
HOSE I.					
Phase 2:					

Method of Procedure: (Contid)

Phase 3:

Estimated Costs: Tota	l Needed by Labo	orntory for Complete Project	157.8
	FY <u>1959</u>	FY <u>1960</u>	FY1961_
Personal Services Other Emperson: Within Incject	6.1	6.3	12.5
Lab. Adm. & Ser.	6.5	0.2	2.5
Lab. Total	12.6	6,5	15.0
Regional Office Mashington Office		The state of the s	
Total			
Recommended Source of F		(S-K, Regular, Contributed	
Recommended by: Originator			Pote
Investigation Chief	James M.	Crossen	
Laboratory Director		V. Graham	
Regional Director			
Branch Chief			
Approved by: Division Chief for Di	rector		

Remarks

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